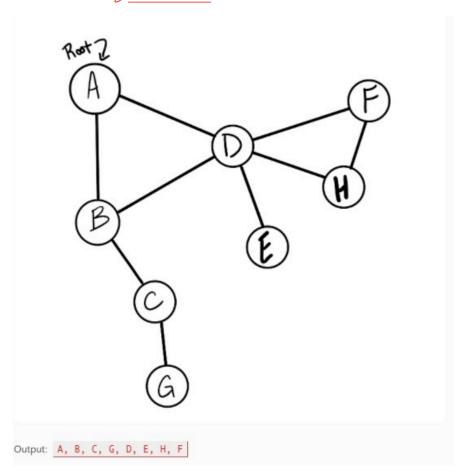
Problem domain

Write a function that accept an adjancency list 45 a graph, and return a collection of nodes in thier preorder depth first fraversal order.

I Mustration.



Algorith.

- Writing a function that take a cist as a parameter-
- create a variable call arr
- creat a function that take vertex
 - . Check if that vertex is in arr.

- refurn if It's the case.
- is not, push that vertex in our.
- loop thorough all the pleighbor of the vertex and do the same.

Pse do-code / code.

bef depth-first (vertex)

cist-vertex = [3

mal incres)

if vertex in hist-vertex

rturn.

List- vertex .append (vertex)

· Nebor = I colder vertex for edge in get Neighbor (yester)]

for vertex in Nebor.

waln (vertex)

Moder (Vertex) Preturn List_vertex.